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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,720	09/22/2003	Steffen Sonnekalb	J&R-1126	9696
24131	7590 02/22/2006		EXAMINER	
LERNER GREENBERG STEMER LLP			PAN, DANIEL H	
P O BOX 2480 HOLLYWOOD, FL 33022-2480			ART UNIT	PAPER NUMBER
	,		2183	
			DATE MAILED: 02/22/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

10/667,720 SONNEKALB, STEFFEN						
Office Action Summany						
Office Action Summary Examiner Art Unit						
Daniel Pan 2183						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address -						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAY WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 22 September 2003.						
2a) This action is FINAL . 2b) ⊠ This action is non-final.						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-9 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>22 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.12	l(d).					
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 09/22/03. Paper No(s)/Mail Date 09/22/03. Paper No(s)/Mail Date 09/22/03. Paper No(s)/Mail Date 09/22/03.						

Application/Control Number: 10/667,720 Page 2

Art Unit: 2183

1. Claims 1-9 are presented for examination.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 2. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Komura (6,216,232)
- 3. As to claim 1, Komura taught a program-controlled unit including an instruction execution pipeline having a plurality of pipeline stages (see col.6, lines 22-25 for pipeline stages, see also figs.2,3,16), the program-controlled unit configured for executing instructions (see fig.7 for instructions for stalling) instructing the program-controlled unit to stop (see clock stop instruction in col.4, lines 35-55, col.7, lines 14-18, see col.11, lines 5-7, lines 35-37) an individual one of a plurality of pipeline stages (see the halt to respective blocks in col.6, lines 48-60, col.7, lines 63-67), more than one of the plurality of pipeline stages (see the halt to respective blocks in col.6, lines 48-60col.6, lines 48-60, col.7, lines 63-67), or all of the plurality of pipeline stages (not explicitly shown); and the instructions stipulating which particular one of the plurality of pipeline stages or which particular ones of the plurality of pipeline stages should be

Art Unit: 2183

stopped (see the identity decision for deciding the respective blocks to stop in col.6, lines 2-18, lines 48-60).

- 4. Komura did nor explicitly show the stop of all pipeline stages as claimed.

 However, the examiner holds that Komura could also stop all the pipeline stages because Komura's halt clock was able to all operations of all blocks. The operations (e.g. fetch, read, write, decode, etc) involved in the blocks (e.g. memory, peripherals, CPU), were in pipelined phases (see col.6, lines 25-36). Therefore, although not explicitly shown, stopping all pipelined stages could done.
- 5. Claims 1-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Douglas et al. (6,609,193).
- 6. As to claim 1, Douglas taught a program-controlled unit including an instruction execution pipeline having a plurality of pipeline stages; the program-controlled unit configured for executing instructions (see fig.7 for instructions for stalling) instructing the program-controlled unit to stop (see stalled clock in fig.8) an individual one of said plurality of pipeline stages, more than one of said plurality of pipeline stages (see clocks stalled), or all of said plurality of pipeline stages (see all xlaocks stalled); and the instructions stipulating which particular one of the plurality of pipeline stages or which particular ones of the plurality of pipeline stages should be stopped (see the instructions for the stalling conditions in the pipeline stages in col.11, lines 11-67, col.12, lines 1-22).

Application/Control Number: 10/667,720 Page 4

Art Unit: 2183

7. As to claim 2, Douglas also specified the length of time of the stage to be stopped (see time 1 in col.11, lines 10-13, see time 2 in col.12, lines 1-2).

- 8. As to claims 3,4, 5,6, Douglas also configured for setting a time for respective one of the plurality of pipeline stages at a particular time after executing (or passed through the pipeline) an instruction that instructs stopping (see the particular clock x for staling the pipe stage based on the given command in fig.7).
- 9. As to claim 7, Douglas also instructed stopping, or other instructions can stipulate a time for beginning to stop a respective one the plurality of pipeline stages (see the stalls by respective commands for each pipe stage in col.8, lines 50-67, col.9, lines 1-13).
- 10. As to claim 8, Douglas also configured for blocking execution of the instructions, which instruct stopping (see blocking of stall in col.9, lines 50-58, col.10, lines 1-6, col.13, lines 38-42).
- 11. As to claim 9, Douglas also configured for treating the instructions, which instruct stopping, as unknown instructions when execution of the instructions, which instruct stopping, is not enabled (see the thread ID of the instruction was not considered in col.10, lines 1-6, see the thread ID 0 blocking the instruction in col.13, lines 38-42).

Application/Control Number: 10/667,720 Page 5

Art Unit: 2183

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a) Stotzer et al. (6,691,240) is cited for the teaching of pipelines stages with stop cycles (see the NOPs in fig.6a,b, col.9, lines 51-67, col.10, lines 1-25).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dan Pan whose telephone number is 703 305 9696, or the new number 571 272 4172. The examiner can normally be reached on M-F from 8:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chan, can be reached on 703 305 9712, or the new number 571 272 4162. The fax phone number for the organization where this application or proceeding is assigned is 703 306 5404.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

21 Century Strategic Plan

Application/Control Number: 10/667,720

Art Unit: 2183

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Page 6